

## DENTAL EQUIPMENT TECHNICIAN I

This is journey level work in the installation, maintenance, repair and modification of dental and related equipment.

Employees in this class install, perform required preventive maintenance and effect mechanical, electrical, or pneumatic repairs as necessary on a variety of clinical and laboratory dental equipment. Work sometimes requires the machining of duplicate parts where replacement parts are not available or the fabrication or modification of equipment to meet special clinical or laboratory needs. During periodic replacements of dental equipment, employees connect equipment to building systems, and test equipment making adjustments and calibrations as required. In addition, employees instruct users on the proper operation and routine maintenance of equipment. Work is performed under the general technical guidance of a higher level Dental Equipment Technician.

### I. DIFFICULTY OF WORK:

Complexity of Work - Work requires the application of mechanical, electrical, and pneumatic knowledges in the installation, maintenance, modification and repair of dental and related equipment. Employees must use the more common types of machine shop equipment in fabricating parts.

Intricacy of Work - Work requires the installation of parts in close surroundings and close adjustments to assure that equipment operates properly. Parts must be fabricated to close tolerances.

Controls Over Work - Routine tasks are performed independently. For unusual problems, technical assistance is available from a higher level Dental Equipment Technician or from vendors. Repair manuals are available for most equipment.

Judgmental Demands - Employees must determine the most likely problems from observation of equipment operating problems and determine the best repair solution. Decisions are made on the continued use or replacement of parts or components.

### II. RESPONSIBILITY:

Potential - An increase of equipment downtime delaying patient care or student instruction, some waste of parts, significant damage to dental equipment.

Care and Attention - Preventive maintenance schedules must be followed to keep equipment operating at optimal levels. Correct problem diagnosis is necessary in order to prevent waste of parts or equipment downtime. Proper repair procedures must be followed to prevent damage to dental equipment. Employees are responsible for safety checks on equipment such as couples and valves associated with nitrous oxide equipment.

### III. PHYSICAL EFFORT:

Intensity of Effort - During equipment installation or removal, heavy dental equipment must be lifted and moved. Daily repair work ranges from light to moderately heavy hand and arm work.

Frequency and Duration - The lifting and carrying of heavy objects occurs occasionally Light to moderately heavy hand and arm work occurs regularly throughout the workday.

IV. WORK SURROUNDINGS AND HAZARDS:

Worker Surroundings - Work is performed mostly in clinics, laboratories, or a repair shop. Environmental conditions are adequate. Employees are subjected to some exposure to dental gases and solvents used in cleaning parts.

Hazardous Conditions - While fabricating parts, employees use lathes, milling machines, drill presses, etc., which could result in hand or arm injuries resulting in lost time. The use of handtools could result in minor injuries.

V. RECRUITMENT STANDARDS:

Knowledges, Skills, and Abilities - Mechanical, electrical, and pneumatics knowledge sufficient to troubleshoot and repair dental equipment. Working knowledge of the types and uses of tools and equipment used in the repair of dental equipment. Ability to diagnose equipment malfunctions and prescribe repair procedures. Ability to instruct others in the proper operation and routine maintenance of dental equipment.

Minimum Education and Experience - High school or General Educational Development diploma and three years of progressive experience in the repair and maintenance of a variety of mechanical, electrical, or pneumatic equipment preferably including some experience with dental equipment; or an equivalent combination of education and experience.